

VSAM COBOL Programming

Duration	2 days.
Participants	Application developers.
Objectives	Upon successful completion of this course, you will be able to: <ul style="list-style-type: none">• Write COBOL programs that access and update KSDS, ESDS, and RRDS VSAM files using sequential, dynamic, and random access techniques.
Overview	Participants learn to access and update VSAM files from batch COBOL programs. Processing includes reading, updating, and where permitted, deleting records from KSDS, ESDS, and RRDS VSAM files.
Format	Instructor-led and extensive hands-on computer workshops.
Prerequisites	Ability to code basic JCL, use the edit and submit features of TSO/ ISPF and code basic IDCAMS control statements to create and manage VSAM files.
Related Courses	After completing this course, consider attending: <ul style="list-style-type: none">• VSAM/ IDCAMS Utility• VSAM KSDS Performance and Tuning• VSAM CICS COBOL Programming• File-AID for VSAM
Topic Outline	COBOL View of VSAM Contrast KSDS, ESDS, and RRDS Usage in COBOL Programs COBOL SELECT Clause in ENVIRONMENT DIVISION ASSIGN TO ORGANIZATION ACCESS MODE RECORD KEY ALTERNATE RECORD KEY FILE STATUS Other clauses FD and 01s for VSAM Files JCL for VSAM Files DDNAMES File-Status Checking Typical Codes to Check

VSAM COBOL Programming *(continued)*

Topic Outline

Procedure Division Verbs for VSAM

- Open Statement
- Read Statement
- Start
- Current Record Pointer
- READ NEXT
- Write
- Rewrite
- Delete
- Close
- Checking VSAM File Status Codes

SEQUENTIAL vs RANDOM vs DYNAMIC Processing

Flow of Logic

- Programming Differences between KSDS, ESDS, and RRDS

AIX Processing

Additional Processing

- Update ESDS Records
- Update KSDS Records
- Update RRDS Records
- VSAM Examples
 - KSDS Create/ Load Example
 - ESDS Create/ Load Example
 - ESDS Read Example
 - ESDS Update Example
 - ESDS Append Example